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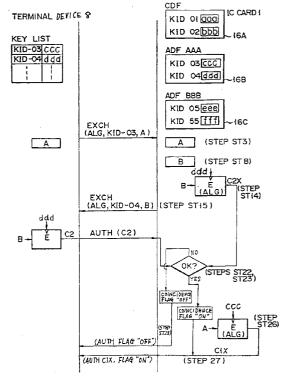
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## (54) Mutual authentication system and method.

A mutual authentication system authenticates a first electronic device and a second electronic device by transmitting authentication data between the first and second electronic devices. In this system, the second electronic device transmits a first authenication data to the first electronic device. In the first electronic device, the legitimacy of the second electronic device is determined based on the first authentication data transmitted from the second electronic device. The first electronic device also transimits a second authentication data, which is used for determining the legitimacy of the first electronic device, to the second electronic device. When the second electronic device is not determined to be legitimate by the first electronic device, the first electronic device does not transmit the second authentication data to the second electronic device.



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## **EUROPEAN SEARCH REPORT**

Application Number EP 91 30 9142

Category	Citation of document with ir of relevant par	dication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)	
X	EP-A-0 216 298 (CAS * abstract *	10)	1-8	G07F7/12	
4		- line 14; claims 1,2	9		
\	EP-A-0 252 849 (BUL * abstract *	L CP8)	1,6,9		
١.	EP-A-0 281 058 (SIE * column 2, line 33	MENS) - column 3, line 40 *	1,6,9		
4	EP-A-0 284 133 (TRT * column 3, line 36	) - column 4, line 39 *	1,6,9		
				TECHNICAL FIELDS SEARCHED (Int.CL.5)	
				G07F	
	The present search report has b	een drawn up for all claims	_		
	Place of search	Date of completion of the search		Examiner	
THE HAGUE		18 October 1993	per 1993 TACCOEN, J		
X : par	CATEGORY OF CITED DOCUMENT TICLIARY RELEVANT IF TAKEN Alone	E : earlier patent d after the filing	ocument, but pub date	lished on, or	
Y: particularly relevant if combined with another document of the same category		L : document cited	D: document cited in the application L: document cited for other reasons		
	hnological background n-written disclosure	& : member of the		ly, corresponding	